

B.A.R.G. NEWS



VK3BML - BALLARAT AIRPORT

Official Newsletter of the Ballarat Amateur Radio Group Inc. No: 6953T

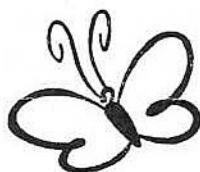
SEPTEMBER 1999

VOLUME 22 No. 9

*SPRING IS SPRUNG
THE GRASS IS RIS'*

SO

*MAKE SURE
YOUR FRIENDS
KNOW
WHEN &
WHERE
THE
HAMVENTION
IS!!!*





B.A.R.G.
BALLARAT AMATEUR RADIO
GROUP INC.

HAMVENTION '99

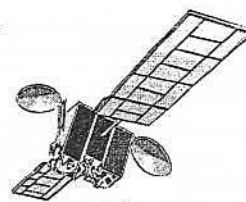
BALLARAT SHOWGROUNDS
WOOL PAVILION
CNR. CRESWICK RD & HOWITT STS.
ENTRANCE FROM WHITE AVE.
30TH & 31ST
OCTOBER
ENTRANCE - \$5.00
(UNDER 15 Y/O FREE)
FREE COFFEE / TEA ALL DAY - LIGHT LUNCH AVAILABLE
Hamburgers - Sausages
Soft Drinks - Sandwiches
Devonshire Teas

Trestles available at reasonable charge.
(Booking Essential)
SATURDAY 30th.
Fox & Sniffer hunting from 10am - All day.
Evening Counter Tea - 7.00pm at Western Hotel. (Please book.)
SUNDAY 31st. Displays and Sales start at 9 am.
Fox and Sniffer hunts from 9.30 am.
Homebrew Competition

MAIL TO: Tom George
33 Wattle Ave. Wendouree Vic. 3355

ENQUIRIES
Tom - VK3DMK - 5339 9737
Doug - VK3KAY - 5339 2778

INSERT TO "AMATEUR RADIO" OCTOBER 1999 VOL 67 NO. 10.





BALLARAT AMATEUR RADIO GROUP INC.

Inc. No: 6953T

OFFICE BEARERS - 1999 / 2000

CLUB STATION - VK3BML



		COMMITTEE		WORK	HOME
CHAIRPERSON (90 Days)	MARY CURNOW	VK3FMC	DICK		5330 1927
VICE PRESIDENT	BOB TERRILL	VK3BNC	BETTY		5339 5317
SECRETARY	STEPHEN DICK	S.W.L.	MARY		5331 5526
TREASURER	MURRAY FELSTEAD	VK3AAI	KAREN	5339 4563	5341 2234
MEMBERS' REP.	REG. CARTER	VK3CAZ	SHELAGH		5341 7585
MEMBERS' REP.	CHARLIE STEWART	VK3DCS	SHIRLEY		5331 7425
MEMBERS' REP.	GORDON CORNELL	VK3FGC	HELEN	5339 1135	5339 2427
MEMBERS' REP.	DICK CURNOW	VK3LDC	MARY		5330 1927
MEMBERS' REP.	MARY CURNOW	VK3FMC	DICK		5339 1927
MEMBERS' REP	GEOFF SMITH	VK3ADB			5333 2112

OFFICERS

QSL MANAGER	DARYL QUIRK	VK3XDQ	WENDY		03 5476 2689
EDUCATION OFFICER	TOM GEORGE	VK3DMK	ELAINE		5339 9737
MEMBERSHIP SEC.	NORM. D'ANGRI	VK3LBA	VAL		5334 1613
TECH. OFFICER	BOB TERRILL	VK3BNC	BETTY		5339 5317
TECH. OFFICER (DIG.)	DOUG. KAY	VK3KAY	DEBBIE		5339 2778
NEWSLETTER EDITOR	NORM D'ANGRI	VK3LBA	VAL		5334 1613
NET CO-ORDINATOR	CLEM ALLAN	VK3BVI	PAT		5348 7709
AWARDS MANAGER	DOUG RAPER	VK3VBA	VAL		5332 3565
HISTORIAN / LIBRARIAN	DICK CURNOW	VK3LDC	MARY		5330 1927
EXAM. OFFICER	CHARLIE STEWART	VK3DCS	SHIRLEY		5331 7425
PUBLICITY OFFICER					
PROPERTY OFFICER	JEFF PIGDON	VK3PAP	LYN	5331 1640	5332 7041
WICEN STATE CO-ORD.	GORDON CORNELL	VK3FGC	HELEN	5339 1135	5339 2427
H'MVENT. CO-ORD.	TOM GEORGE	VK3DMK	ELAINE		5339 9737
SCRAMBLE CO-ORD.	REG. CARTER	VK3CAZ	SHELAGH		5341 7585
AMENITIES COMMITTEE	BETTY - SHIRLEY - SHELAGH - MARY.				

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LIFE MEMBERS OF BARG.

VK3SE STAN WIDGERY
VK3CFB JIM WRIGHT
VK3AXH IAN MC.DONALD
VK3WN KEVIN HUGHES
exVK3AQM PHIL SNEDDON

REPEATERS

VK3RBA (Voice) 146.750 MHz. - Mt.Buninyong.
VK3RBS (Voice) 146.900 MHz. - Smeaton Hill
VK 3RPC (Packet) 144.750 MHz. - Mt. Warrenheip.
VK3RBU (Voice) 438.475 MHz. - Mt.Hollowback.
VK3RMB (Beacon) 432.535 MHz. - Mt.Buninyong.
VK3RBV (ATV) 426.250 MHz. - Ballarat

ACTIVITIES CLUB NET: Thursday nights at 8 pm. (8.30 pm during Daylight Saving). Freq: 3.610 MHz +/- QRM.

2 METRE SCRAMBLE: Sunday Nights at 7.50 pm. Freq: 146.425 to 146.600 MHz. Inc.

Call back held on VK3RBA 146.750 MHz.

MEETINGS: General Meeting : Last Friday of each month (except December) at 8.00 pm.

Venue: Club Rooms - Ballarat Airport - Unit 31 - Off Learmonth Road - Ballarat.

CONSTRUCTION NIGHTS: Saturday Afternnons at clubrooms.- 1 pm..

HAMVENTION : 30th & 31st. October 1999.

INTERNET ADDRESS: <http://www1.tpgi.com.au/users/ddi/barg/barg.htm>

PLEASE ADDRESS ALL CORRESPONDENCE to: The Secretary - BARG Inc. Box 1261 Mail Centre Ballarat 3354

NEWSLETTER ARTICLES to NORM D'Angri (VK3LBA) 29 Lawrence St. Alfredton 3350 - email to :- norval@telstra.easymail.com.au



The Minutes

MINUTES OF B.A.R.G. A.G.M. – 27TH AUGUST 1999



The A.G.M. for the 1999 / 2000 era opened at 8.04 pm with President Mary VK3FMC warmly welcoming all and extending best wishes to those unable to attend due to illness.

APOLOGIES were then tendered on behalf of the following members:

VK3s – BNC, BVI & Pat, NIZ, CFH, LBA & Val, S.Dick, AMC, YFM, Shelagh, AUR & Hellen, and KQQ.

It was moved by Reg VK3CAZ and seconded Charlie VK3DCS that the apologies be accepted.

MINUTES: The minutes of the AGM held on the 28th August 1998 were read and confirmed.

Moved Reg VK3CAZ and Seconded Tom VK3DMK.

BUSINESS ARISING : Nil.

CORRESPONDENCE: Referred to the General Meeting.

TREASURER'S REPORT: A copy was circulated to each member present by the Treasurer, Murray VK3AAI, who then moved that the report be accepted.

The motion was seconded by Gordon VK3FGC Carried.

RECOMMENDATION: That the fees (\$25.00) remain as is for the coming year.

Moved VK3AAI, Seconded VK3FGC.

RECOMMENDATION: That thanks be extended to our Auditors – Jeff VK3LU and Bud VK3AAP for a job well done ! A motion that they be appointed to audit BARG financial records for the year 2000 and that a letter of thanks be forwarded was moved VK3AAI and seconded VK3DCS.

A PRESENTATION of certificates for performance in the weekly scramble were then awarded by Gordon VK3FGC to Reg VK3CAZ First Place
and Mary VK3FMC Runner Up.

President Mary then gave a summary of the years activities and thanked all office bearers for their efforts during the past year. She then declared all positions vacant.

Gordon VK3FGC then presented our outgoing President Mary with a Certificate and a bunch of flowers recognising her term of office... Well Done !!!

RETURNING OFFICER: Gordon VK3FGC was requested to assume this role and, under the articles of constitution accepted nominations for vacancies.

ELECTIONS As the received nominations corresponded to the number of vacancies, new officers were elected unopposed for 1999/2000. See attached list.

As no nomination for President was received, Mary VK3FMC accepted the custodial role of the Chairperson for the term of 90 days pending !!

Meeting closed at 8.35 pm.

VK3ADB Hon Secretary.

THANKS GEOFF

I would like to thank Geoff VK3ADB for his help over the last few years, during his several stints as Secretary, in the compilation and printing of the newsletter. Geoff has always been available to help out when we have encountered printing difficulties, and his assistance is greatly appreciated. Thanks Geoff. - Ed.

99/09 4



The Minutes

MINUTES OF B.A.R.G. GENERAL MEETING HELD
27 TH. AUGUST 1999



The General Meeting followed our AGM and apologies were considered as read.

MINUTES: of the previous meeting were tabled as presented in the magazine, and were confirmed by Reg VK3CAZ Seconded by Gordon VK3FGC.

TREASURER'S REPORT: as tabled in AGM. Moved VK3AAI Seconded VK3FGC
REPORTS:

TECHNICAL: Peter Hallgarten to be contacted re progress of RPC and internet link etc.

AMMENITIES: 8th November is day of the trip to Knoxville. \$5.00 per seat.
Plaque for Silent Keys in hand. To be installed soon.
Curtains for windows. – Thanks Betty.

XMAS FUNCTION: Thursday Group – Dec 16th Luncheon. 12.15 at Irish Murphy's.
Xmas BBQ at clubrooms – T.B.A.

EDUCATION: Exam date to be advised.

HAMVENTION: Fox Hunters – better get organised.

WICEN: Meeting 4th Wednesday each month. Discussion – Proposal in the wind to upgrade VK3RBA and re-locate ? ... before y2k ?

Motion: BARG Committee investigate legalities of proposal by WICEN to take over &/or replace VK3RBA equipment.

Moved VK3JEM Seconded VK3VBA

NETS: Motion Lapsed 6 in favour 8 against. – Refer to Committee.
Still of great interest to all. Lots of "check ins" Often rare DX !

SCRAMBLE Starts 5th September. Many challenges issued for the new millennium. Reg CAZ in panic – LDC has 2kW linear – XDQ building new tower & beam. Going to be awesome !

GENERAL BUS. Rotary Raffle – 50 books. Available 6th September. Car booked for Bridge Mall. Volunteers required Wed. October 13th. and Tuesday 19th October. 9 am to 5 pm.

WELCOME Stephen Walsh VK3HEG was welcomed to the group and presented with his badge

MEETING CLOSED AT 9.45 pm.

All adjourned to the supper room for the usual post AGM spread.... Good Company
.... Great food Way to go.....

Have a great month. Cheers from Geoffrey VK3ADB – on behalf of the Secretary.

DID YOU KNOW ?

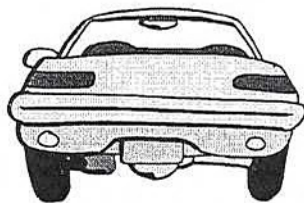
THE HAM POPULATION IN THE FOLLOWING COUNTRIES

United Kingdom	60,911	Japan	1,219,907	Taiwan	912
France	31,004	Australia	17,211	Canada	58,003
Indonesia	11,101	Spain	45,329	Ireland	2,454
Italy	33,578	Argentina	35,479	New Zealand	6,350

ROTARY CAR RAFFLE



BALLARAT SOUTH



TICKETS NOW
AVAILABLE

VOLUNTEERS WANTED
TO SELL TICKETS IN
BRIDGE MALL.

WED. OCTOBER 13th.
TUES. OCTOBER 19th.
9 am. to 5 pm.

MARY VK3FMC
SAYS "THANK YOU"

Thank you to all members for their support during the year, and for the magnificent bouquet of flowers. They were much appreciated.

Mary VK3FMC.

FINANCIAL ?

B.A.R.G.
MEMBERSHIP FEES
for 1999 / 2000
became Due and Payable
at the A.G.M.

To remain financial, and receive
your copy of the Newsletter
please forward your fees to the
Treasurer Murray VK3AAI

Full Member - \$25.00
Family Members - \$40.00

Distribution of the Newsletter to
unfinancial members will cease
with the October Issue.



TO ALL XYLS

MONDAY NOVEMBER 8TH. 1999

TRIP TO KNOX SHOPPING CENTRE

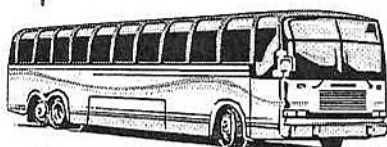
\$5.00 per person.

All XYLS, Partners and Friends are invited
to participate in a Bus Trip to the
Knox Shopping Centre.

Great for Christmas Shopping

Keep this date free. Enquiries and Bookings to:

Mary - 5330 1927 Shirley - 5331 7425 Shelagh - 5341 7585



There can be little doubt that the name of Morse is known by virtually everyone associated with radio. However less is known about the man who invented the code and the system associated with it and the fact that he was a very accomplished artist. In fact many people today believe that he was the finest artist who has come from North America.

Samuel Morse was born in Massachusetts in 1791, the son of a minister. He graduated from Yale College in 1810. However against his father's advice wanted to become an artist, and he left to study art in London in 1811. On his return he struggled to make a living, but slowly his reputation began to increase and he was able to fund another trip to Europe. All the time Morse also had an interest in the new field of electromagnetism, and on the return trip he devised a system for sending messages. When back in the America, his finances forced him to work and he had little time to develop his new idea.

To overcome this problem, in 1837 Morse enlisted the help of several associates including Alfred Vail. Vail had a flair for mechanical devices and it is said that Vail might have actually invented the idea of a Morse key. Despite huge amounts of work, the project failed, and nobody appeared to want the idea. Nevertheless Morse continued on his own, finally gaining a grant from Congress to lay an experimental line between Washington and Baltimore. Then on 24th May 1844, Morse sent his historic message, "What hath God wrought."

With this line installed, orders started to be placed, and soon Morse telegraphic systems were installed alongside many railroad tracks. This brought Morse considerable wealth, but also much trouble. His previous business partners started to place lawsuits against him. However the law courts found in favour of Morse.

In later life, Morse was generous with his wealth. He supported many charities, and many itinerant artists, remembering how he struggled in his early years. He lived until the age of 80 dying in April 1872.

After his death the use of the code increased still further. Being a very versatile form of coding, it was ideal for use with radio. Marconi used it for his successful first transatlantic radio message in 1901. Then it was brought into general use, and is still in widespread use today, although with new computerised forms of data transmission its use is starting to decline. Nevertheless its success has been phenomenal being a widely used form of communication for well over a century.

This article by Ian Poole - Radio & Electronics Weekly - U.K.)

AMATEUR RADIO

E E L B M A R C S V S E F J F
X L D T Y Z T U A P H B O C I
P R O P A G A T I O N J X S N
E B R P G O C H E I A H H M L
R M G P I A T M J N X C U B R
I U O R B D O S I G U T N X C
M A E B O I X R E P E A T E R
E W T B I N S D D T S M T R Z
N E C I W L U R N W N Z N O R
T R A N S C E I V E R O L A R
A B K I A C B X X G E U C V J
T E W T V Z I O U O Y Y J U T
I M I O O C Y J M T M N A M N
O O T F U X M U I R X X H V H
N H C C U Y G D I I M J X B C

ATTENUATOR
BEAM
CONTEST
DIPOLE
EDUCATION
EXPERIMENTATION
FOXHUNT
HOMEBREW
MOBILE
NET
PROPAGATION
REPEATER
SCRAMBLE
TRANSCEIVER
WICEN
YAGI
ZMATCH

GEORG S. Ω

Ohm is a name synonymous with the very basis of electricity. Every school child that studies physics will have heard of Ohm's Law. Yet behind the name for the unit of resistance is a very real man. Someone who performed experiments that were at the forefront of the technology of the time.

Georg Simon Ohm was born on 18th march 1789 in Erlangen in Bavaria. He was the eldest of three children born to Wolfgang and Maria.

Georg entered school at the age of 11 and he proved to be a bright student, and in 1805 he moved on to University at Erlangen. Unfortunately the social life proved to be too much of an attraction and after just over a year he was forced to leave.

Having learned some of the hard truths of life Ohm set to work again and this time managed to gain his Ph.D. With this behind him he took up a career as a teacher with the aim of becoming a professor. To gain recognition he published a book on geometry, and this enabled him to move on to teach at the Jesuit's College in Cologne.

In 1820 the phenomenon of electromagnetism had only just been discovered. Ohm was fascinated by electricity and started to make some investigations. However even basic measurements like measuring current were difficult. Measuring current was accomplished by measuring the magnetic flux around the conductor. Whilst doing this Ohm noticed that the type of conductor had an effect on the flux and as a result he performed experiments to find out if there might be any relationship between the voltage, current and the material of the wire.

Ohm derived a relationship between them, but his first attempt was incorrect, involving logarithms. However Ohm continued to work on the problem. He refined his results and used improved batteries that were a major source of error. Using the improved system he was able to establish a new relationship that was very much like the one we know today.

Ohm was now confident of his results and published them. However the scientific community were very sceptical, and some people even ridiculed him. Fortunately a few people recognised his work and this enabled him to move on to Berlin to proceed with further research

After his move to Berlin, much of Ohm's time was spent in research. He also published the results of his work in a book entitled "Die Galvanische Kette Mathematisch Bearbeitet" (The galvanic Circuit Investigated Mathematically).

Ohm's main aim was to become a professor. To be able to achieve this he resigned from his post and became a part time teacher. In this way if a suitable post arose then he would be able to take it up quickly and easily. Unfortunately the plan did not work until 1833. At this time Ohm's work was beginning to be recognised and he was offered the post of professor of physics in Nuremburg.

Further recognition came to Ohm. In 1841 the Royal Society in London awarded him the Copley Medal and a year later he was made a foreign member. Finally in 1852 Ohm was appointed professor of physics at Berlin University. Unfortunately he was unable to enjoy this success for long because he died shortly afterwards in July 1854.

After his death Ohm's work was fully accepted. Many societies and organisations saw the need for a unit of resistance. In fact it was in Britain that the unit of resistance was first named after Ohm. Then in 1881 the unit was adopted by international agreement and Ohm's name was made immortal.

(This article by Ian Poole – Radio & Electronics Weekly – U.K.)

THINK ABOUT IT

- ◆ Do you want to be perfect or human ?
- ◆ Common sense is not always so common !
- ◆ Experience costs too much to ignore !

BARG EVENTS (E.O.E.)



September 1999

Mon	Tue	Wed	Thu	Fri	Sat	Sun
		1	2 Net Amen Meet	3	4 Con.Day	5 Scramble
6	7	8	9 Net	10	11 Con.Day	12 Scramble
13 Mag Cut off	14	15 Comm. Meeting	16 Net	17	18 Con.Day	19 Scramble
20	21	22	23 Net	24 BARG GEN MEET	25 Con.Day	26 Scramble
27	28	29	30 Net			

OCTOBER

Mon	Tue	Wed	Thu	Fri	Sat	Sun
				1	2 Con Day	3 Scramble
4	5	6	7 Net Amen Meeting	8	9 Con Day	10 Scramble
11 Mag.Cut off	12	13	14 Net	15	16 Con Day JOTA	17 Scramble JOTA
18	19	20 Comm. Meeting	21 Net	22	23 Con Day	24 Scramble
25	26	27	28 Net	29 Gen.Meeting	30 Hamvention	31 Scramble Hamvention


INFORMATION

Friday September 24th - BARG General Meeting.

Sat /Sun October 16th / 17th. Jamboree of the Air - JOTA

Sat/Sunday October 30/31st - BARG Hamvention

Monday November 8th. - Knox Shopping Centre Bus trip.

Sunday Nights. 2M Scramble - 7.50pm. 146.425 to 146.600 MHz.

Saturday Afternoons - Construction Days - Clubrooms at 1 pm.

Thursday Nights- Club Net - 3.610 MHz. - 8pm (8.30pm in Daylight Saving)

4th. Wednesday each month -WICEN Training nights.

Thursdays 2 pm - Daytime get together - Clubrooms.

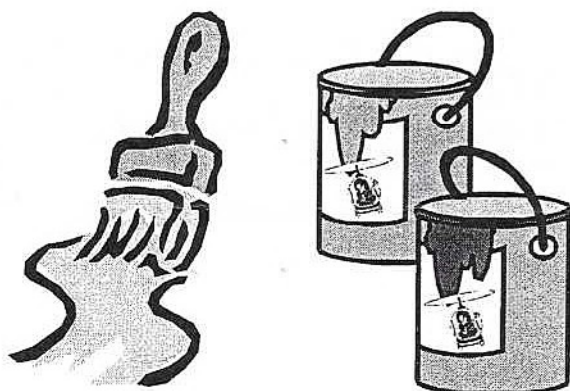
First Thursday each month -Amenities sub-committee meet.

Paint Problems ?

For expert assistance
contact

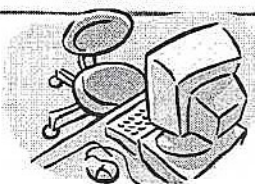
Paul Bruty VK3BWC and the experts at
Conroy's

PAINT RIGHT



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Australia" Award - 1998.



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CARECLEAN PLUS Hand Cleaner
100 gm. Tubes

WINDSCREEN WASHER
CONCENTRATE
500 ml.

ENGINE DEGREASER
400 gm. Aerosol and 1 ltr. Tins.

DWF for TIGHT NUTS.

73 Bull VK3PH



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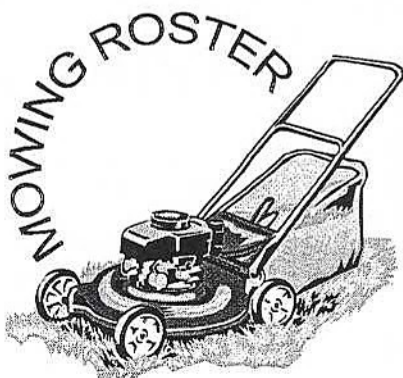
SUPERRUN PRINTS

PRINTING
SCREENPRINTING
TEE SHIRT PRINTS

Wendouree

JOHN GRAHAM - 5339 1097

99/09 10



September – Chris Drossos
Murray Felstead.
October - Bud Foley
Geoff Smith

Key available from:

Murray at UFS Dispensary– Howitt St.Wendouree
or Committee Members.

Our thanks to Stephen Dick for his lawn maintenance.

PLEASE NOTE

CUT OFF DATE FOR ARTICLES FOR PUBLICATION IS NOW THE
SECOND MONDAY OF EACH MONTH.

B.A.R.G.

The Ballarat Amateur Radio Group Inc.



A group of radio enthusiasts licensed to experiment with
local and international radio communications on an amateur basis.

NEW MEMBERS ALWAYS WELCOME.

OFFICIAL NEWSLETTER OF THE BALLARAT AMATEUR RADIO GROUP INC.
Inc.No: 6953T

MR. G. CORNELL VK3FGC
304 WENDOUREE PDE.
BALLARAT VIC 3355

SURFACE MAIL

NEWS

B.A.R.G.



IF UNDELIVERABLE
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BALLARAT 3354